# DIBOSS PH-1R SERVICE NOTES

# First Edittion

### **SPECIFICATIONS**

Weight . . . . . . . . . . . . . . . . . 400 g

BATTERY BATTERY CONNECTOR STRAP

COIL SPRING N-109(2217010900)

 $3 \times 10mm$ 

PEDAL N-702 (2215070201)

CASE N-129 (2201012900)

COVER N-116 (2202011600) BASE N-305 (2235030500) bottom, not shown

LED SLP-135B (15029117)

SCREW

Pot. VM10AS15 100KB (13229514)

Pot. VM10AS15 10KB (13229510)

Knob TK-1140 (2247012500)

Jack SG-7713 (13449104)

Base N-304 (2235030400)

Jack HEC-0003 (13449702)

or.

HEC-0317-1-1 (13449704)

(detail on parts list)

Pot. VM10AS15 1MC (13229509)

Knob TK-1122(2247010500)

Jack SG-7622 (13449106)

Pedal N-516 (2218051600)

## **PARTS LIST**

Parts are designated in 8-10 digits accompanied by previous 6 digit number, if had, for cross reference.

N- before abridged part number stands for NEW.

| NEW        | OLD     | PART NAME             |
|------------|---------|-----------------------|
| 2201012900 | 066-048 | Case N-129 green      |
| 2218051600 | 065-255 | Pedal N-516 green     |
| 2202011600 | 065-130 | Cover N-116 bottom    |
| 2235030500 | 111-032 | Base N-305 bottom     |
| 2235030400 | 111-031 | Base N-304 pedal matt |
| 2215070201 | 068-026 | Guide bushing N-702   |
| 2226030500 | 107-053 | Cushion N-305 pcb     |
| 2216050200 | 065-153 | Spacer N-502 pcb      |
| 2217010900 | 070-059 | Spring coil N-109     |
| 2247010500 | 016-025 | Knob TK-1122          |
| 2247012500 | 016-068 | Knob TK-1140          |
| 13129710   | 001-295 | Switch J-M0404        |
|            |         |                       |

PCB

DEPTH

INPUT 4

**←** OUTPUT

Phaser

7521351001 . . . Assy ET5213-510A (pcb 2291031300)

POTENTIOMETER

13229509 028-466 VM10AS15 1MC 13229510 028-447 VM10AS15 10KB 13229514 028-450 VM10AS15 100KB

SEMICONDUCTOR

15139101 017-014 2SK30A(TM)-Y FET 2SC945-P 15129108 017-110 transistor 15129104 017-104 2SC732TM-GR transistor 15139103A 017-016 2SK3OA(TM)-GR selected for phase see detail on back page 15019103 1S2473 diode

15019103 018-014 1S2473 15019523 018-075 RD5.1EB-3 zener 15019547 018-039 RD11EB-3 zener 15029117 019-034 SLP-135B LED

15189105 020-097 uPC4558C BP MON Dual op amp 15189115 020-164 TL022CP BP MON Dual op amp

JACK

13449702 009-022 HEC-0003 (w/SCO mark)

13449704 . . . HEC-0317-1-1 (HOSHIDEN)
\*Differences in size: body and case's mounting hole.
Type -0003 can replace -0317 jack.

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# 14 ADJUSTMENT and CHECKING

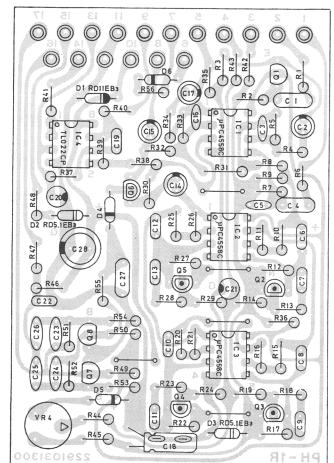
13

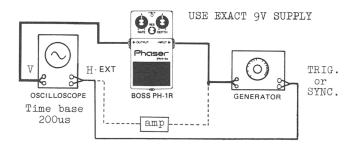
10

11

# ET5213-510A (7521351001) (pcb 2291031300)

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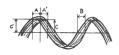




#### 1. BIAS ADJUSTMENT



Test Signal: 1kHz, sine -20dBm



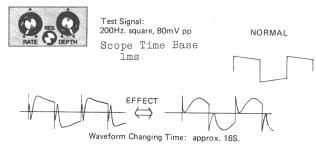
D 2,3: RD5.1EB3

D 4-6: 1S2473

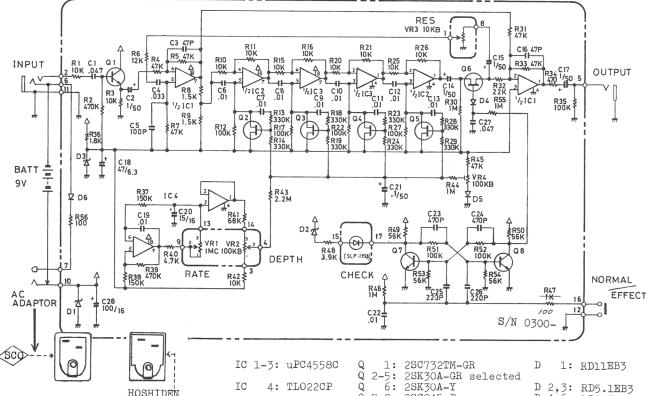
Test signal can be shifted to within the range 900-1100Hz to meet the specification.

Adjust VR4 for A=A' or C=C'. B=more than 0.15 B=more than 0.15ms. Turn DEPTH fcw. The same spec for 850-1150Hz.

### 2. WAVEFORM CHECKING



2SK3OAGR's for Q2-Q5 are a set of factory selected ones; graded based on Pinch-Off, and dotted in a color of the standard code. When replacing, use the one of the same color or the closest.



IC

HOSHIDEN

HEC-0317-1-1

HEC-0003

4: TLO22CP

Q 6: 25KJUA-1 Q 7,8: 2SC945-P